

# Eastern Arizona Amateur Radio Society

EST. 1974

[www.eaars.com](http://www.eaars.com)

INC.



[facebook.com/groups/eaars](https://facebook.com/groups/eaars)

Club Address: EAARS, PO Box 398, Solomon, AZ 85551



*August, 2019*

## JOIN EAARS on Facebook

EAARS has a presence on Facebook and you are invited to **JOIN** the page. This is a great media to quickly share news, photos and events that are EAARS related or might be interesting to the members. If you utilize "Notifications" on the EAARS Facebook page, you can receive club updates AS THEY HAPPEN.

To reach the page, please visit **facebook.com/groups/eaars** and **JOIN** the page. You must have a Facebook account to be part of the EAARS group.



## EAARS Open Repeaters

**PL 141.3** unless noted otherwise

**Echolink:** 614350 **IRLP:** 7787

**Heliograph Peak at Safford, AZ:**

146.860, 440.700 Linked

146.900, 447.8250 Not Linked

**Jacks Peak at Silver City, NM:**

145.210 Linked

**West Peak at Ft Thomas, AZ:**

145.350 Access to link to network

**Pinal Peak at Globe, AZ:**

145.410 Linked

**South Mt at Alpine, AZ:**

145.270 Linked

**Caballo Mt at TorC, NM:**

145.470 Linked

**Greens Peak at Show Low, AZ**

146.700 Linked

**Little Florida at Deming, NM:**

147.060 Linked

**Mule Mt at Bisbee, AZ:**

147.080 Linked

**Mt Lemmon at Tucson, AZ**

147.160 Linked

**Guthrie Peak at Clifton, AZ:**

147.280 Linked

# Gals on the Air!

**EST. June 2015**

Calling all Gals of any class ... Join us every Monday night for the  
**Gals Night Net @ 7:30 pm (AZ) on the EAARS system!**

## Upcoming Events

*Would You like to see your event posted for the membership to see?  
Email your information to [emberfire@cox.net](mailto:emberfire@cox.net).*

### 2019 Events

Sept 14 ..... EAARS Picnic ---- Discovery Park, Safford, AZ  
Oct 6 ..... Tucson Ham Picnic ---Reid Park  
Oct 20..... Making Strides Against Breast Cancer --- Angie N7EMB /  
AZ Sun Bums  
Nov 9..... Alzheimer's Walk --- Angie N7EMB / AZ Sun Bums

Did you know that you can see the Public Service Opportunities on [soazhamservice.net](http://soazhamservice.net)? The events are posted by dates and who leads them. If you are interested in participating or have any questions, please feel free to contact them.

### WEEKLY EAARS' NETS

**Every day:**

Down Under Net - 4:15 am

Weather Net - 5:30 am

NTS Traffic Net - 6:30 pm

**Sunday:**

EAARS Net - 7:00 pm

**Monday:**

Gals Night Net - 7:30 pm

**Wednesday:**

Skywarn Net - During Monsoon, Every Wednesday at 7:30 pm,  
Off Season, every third Wednesday of month at 7:30 pm

**Saturday:**

ERC (Emergency Response Communications) Net -8:45 am ,  
2nd Saturday of the month (20-25 min duration)



## EAARS Officers and Staff

### Board Officers

President	Dave Wells	N7AM
Vice President	Dan Quaintance	AF7EF
Secretary/Treasurer	Larry Griggs	N5BG

### Staff

Site Trustee	Joe Montierth	K7JEM
Net Manager	Chris Buchanan	N7JND
Newsletter Editor	Angie Buchanan	N7EMB

### Net Control Operators

Rick	W8YBM	1st Sunday
Angie	N7EMB	2nd Sunday
Mike	W7IJ	3rd Sunday
Chris	N7JND	4th Sunday

# New EAARS Members!

☆  
welcome

**totally**  
**awesome**

**No New Members  
This Month**

**WELCOME**

Announcing the annual **EAARS Picnic**, to be held at **Discovery Park in Safford on Saturday September 14th, 2019** starting at 2:00 pm. As has been the policy of EAARS over the past few years, this picnic is for current paid up EAARS members **ONLY** and immediate family, IE spouse/child. You should know whether or not you are a current member. If you have any questions in this regard, just ask. Thank you all for your understanding.

**EAARS** will be furnishing the meat and drinks. We will also provide paper plates and plastic utensils. We suggest however that you bring your own utensils for easier cutting of the meat. If you desire to bring something to share, such as salad, desert, etc that will be fine.

The picnic will be by **RSVP**. Please email your intentions to attend no later than **Thursday, September 5th to Larry N5BG**. Please in your **RSVP** indicate your callsign, name and number in your party. Please don't call via the radio and say your coming. Too much possibility of error on our part.

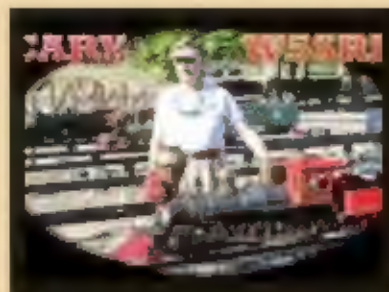
**N5BG Email: [lgriggs@aznexus.net](mailto:lgriggs@aznexus.net)** Note we require this lead time for placing the order for the food.

Looking forward to seeing some of you.

73, Larry N5BG eaars secy/treas



## **Centenarian Radio Amateur's Efforts Helped Pave the Way to the Moon**



ARRL - 07/18/2019

The Nashville Tennessean newspaper recently featured the story of a 104-year-old ARRL member who contributed to NASA's effort to put the first humans on the moon 50 years ago this month. Cary Nettles, W5SRR, of Columbia, Tennessee — who calls himself the nation's oldest rocket scientist still alive — was a NASA project manager and research engineer on rocket propulsion systems in the 1950s and 1960s.

While working on the Centaur second-stage rocket program, Nettles, a Louisiana State University engineering graduate, determined that rocket engine failures NASA was experiencing were a result of misdirected exhaust destroying the vehicles' engines. Nettles told the Tennessean he came up with an "exhaust pipe" that solved the problem. In May 1966, an Atlas-Centaur launcher propelled the first Surveyor lander toward the moon. That year, NASA awarded Nettles and colleague Ed Jonash with its Distinguished Service Medal for "their superhuman effort in turning the troubled rocket into a reliable upper stage," according to a 2004 NASA publication, "Taming Liquid Hydrogen — The Centaur Upper Stage Rocket 1958 - 2002."

A Saturn V rocket with a liquid hydrogen-fueled second stage carried astronauts Neil Armstrong and Buzz Aldrin to their rendezvous with the surface of the moon on July 20, 1969. Nettles retired from NASA the following year.

Nettles got his Amateur Radio license in 1945 and remains active on 40 meters as well as on VHF and UHF repeaters. He is a member of the Maury Amateur Radio Club. In addition to sustaining his interest in ham radio over the decades, Nettles is an enthusiast of "large-scale" steam trains, which he works on in his basement. Look for him Tuesdays at 1400 UTC on 7.215 MHz on the Steam Railroad Net.

In 2015, the year he turned 100, the ARRL Tennessee Section presented Nettles with its Elder Statesman Award.



## **AMSAT President Asks Members to Help Keep Amateur Radio in Space**



ARRL - 07/24/2019

"It takes considerable volunteer effort and real dollars to keep Amateur Radio in Space™," AMSAT President Joe Spier, K6WAO, reminded the organization's members this week in a message that also updated AMSAT activities and issued an invitation to the organization's 50th anniversary Space Symposium and Annual Meeting in October. In addition, Spier put out a call for "important assistance" in the areas of User Services and Engineering (prospective volunteers may contact Spier via email).

"AMSAT has several fund-raising needs," Spier said, noting that contributions to AMSAT are tax deductible to the extent permitted by IRS rules. "The daily operation of AMSAT is accomplished by donations to the General Fund. The other main department needs are the fund for GOLF 3U CubeSats design/construction and Amateur Radio on the International Space Station (ARISS)."

Spier pointed to the 2018 successes of AO-92 (Fox-1D) and the launch of AO-95 (Fox-1Cliff). Although the latter satellite's receiver is not operational, Spier said AMSAT Engineering and Operations has been trying to determine the cause of the issue.

"AMSAT partnered with Spaceflight Inc. by contracting and paying for these launches," Spier noted. "Fundraising for Fox-series satellites has not yet recouped this expenditure, so donations are still being accepted." AMSAT expects to launch of RadFxSat-2 (Fox-1E), in partnership with Vanderbilt University, no later than the end of summer. AMSAT is also partnering with several universities to fly the same linear transponder on their CubeSats.

AMSAT has been selected for two CubeSat Launch Initiative (CSLI) opportunities for GOLF-TEE and GOLF-1. "GOLF's 3U spaceframe is being designed with versatility to add mission-specific radios, power supplies, and experiments," Spier said. "A series of GOLF CubeSats will provide better coverage, and a greater footprint will allow more coverage by fewer satellites."

GOLF-TEE could launch as early as next year and will carry an experimental 5 GHz/10 GHz software-defined radio transponder.

One-time or recurring donations to AMSAT and ARISS are welcome. Spier said an ARISS FundRazr campaign has raised \$33,250 of the \$150,000 needed for critical Amateur Radio infrastructure upgrades on the International Space Station (ISS) to enable students to talk to astronauts in space.

"AMSAT is also working with our ARISS partners to develop an Amateur Radio package, including two-way communication capability, to be carried onboard Gateway in lunar orbit," Spier said.

## **HAL Communications Cofounder, President Bill Henry, K9GWT, SK**

ARRL - 07/19/2019

A cofounder and later president of HAL Communications, George W. "Bill" Henry, Jr., of Monticello, Illinois, died on July 17. An ARRL Life Member, he was 78. HAL Communications formally got its start in 1972 among hams and graduate students at the University of Illinois at Urbana, but the company's history goes back a few years before.



Henry once explained that the name HAL was chosen by partner George Perrine, who picked the name because it was "one letter ahead of IBM."

HAL Communications grew into a successful supplier of RTTY and digital communications modems, terminal units, and software, including CLOVER. Henry sold his stock in the enterprise to Barrett Communications in Australia in 2012, which continues to operate HAL Communications as a standalone business unit.

"I thoroughly enjoyed the job," Henry said in a 2013 narrative posted on QRZ.com. "There are not too many occupations where you get to pay yourself to do exactly what you always wanted to do."



The Monsoons are upon us! As beautiful as they can be, they can also be very destructive. Please be safe in all you do, indoors and out.



# 30 Freaky Facts About The Weather!

- 1) You can tell the temperature by counting a cricket's chirps!
- 2) Sandstorms can swallow up entire cities.
- 3) Dirt mixed with wind can make dust storms called black blizzards.
- 4) A mudslide can carry rocks, trees, vehicles and entire buildings!
- 5) The coldest temperature ever officially recorded was  $-89.2^{\circ}\text{C}$ . Brrrr!
- 6) Mild autumn weather often means bigger spiders in our homes.
- 7) A heatwave can make train tracks bend!
- 8) About 2,000 thunderstorms rain down on Earth every minute.
- 9) A 2003 heatwave turned grapes to raisins before they were picked from the vine!
- 10) Lightning often follows a volcanic eruption.
- 11) Raindrops can be the size of a housefly and fall at more than 30kmph.
- 12) Cape Farewell in Greenland is the windiest place on the planet.
- 13) Hurricanes can push more than 6m of water ashore.
- 14) In July 2001 the rainfall in Kerala, India, was blood red!
- 15) Blizzards can make snowflakes feel like pellets hitting your face.
- 16) A hurricane in Florida, USA, caused 900 captive pythons to escape.
- 17) Worms wriggle up from underground when a flood is coming.
- 18) A thunderstorm can produce 160kmph winds!
- 19) In Antarctica, snow can fall so hard you can't see your hand in front of your face.
- 20) A whiteout or heavy snowfall that makes it difficult to see, can make you feel sick.
- 21) Wildfires sometimes create tornadoes made of fire called fire whirls.
- 22) In 1972, a blizzard dumped 8m of snowfall on Iran, burying 200 villages.
- 23) Some tornadoes can be faster than formula one racing cars!
- 24) Black ice, a transparent coating of ice on a surface, can make pavements super-slippery.
- 25) Some frogs get noisier just before it rains.
- 26) In 525 BC a sandstorm buried hundreds of soldiers in an Egyptian desert.
- 27) Waterspouts, or rotating columns of air over water, can make sea creatures rain down from the sky.
- 28) The most damage ever caused by a thunderstorm was in 1995, when hailstones bigger than cricket balls fell in Texas, USA.
- 29) In 1684, it was so cold that the River Thames froze solid for two months.
- 30) Cats and dogs have been known to sense when a tornado is approaching.



# Other Club Stuff

## FREE CLASS this Fall

For Technician HAM RADIO License

Join the FUN and TALK to the WORLD

6 Weekly Classes begin Sun., Sept 8, 2019

6:00 PM at Tucson Hardesty Police Station,

1100 S. Alvernon Way, Tucson

email Ken at [kg7khy@gmail.com](mailto:kg7khy@gmail.com) for

full info and a spot in class

Books cost about \$25 each on Amazon  
Represented by Radio Shack for Tucson

## Amateur Radio Tailgate Swap Meet Showlow

Talk in  
146.76  
pl 162.2

Load up your wagon  
or truck

\$5.00 to tailgate

FREE to walk-in



August 17, 2019

8:00 to 12:00

Masonic White River Lodge #62

741 E. Whipple Street

Showlow

[WA7ZZT@dmbam.com](mailto:WA7ZZT@dmbam.com)

# Other Club Stuff

**RST holds FREE VE testing on the following dates, 7:00 pm at Hardesty Mid- Town Police Building, 1100 S Alvernon, Tucson.**

12-Aug-2019

09-Sep-2019

14-Oct-2019

11-Nov-2019

09-Dec-2019

## **RST Upcoming Days in the Park Events**

Aug 17 2019 Jacobs Park  
3300 N. Fairway Avenue  
10 AM to 2 PM Talk in on 146.520 FM

Sep 14 2019 Morris K. Udall Park  
7200 E. Tanque Verde Road  
10 AM to 2 PM Talk in on 146.520 FM

Oct 12 2019 AMPHI Neighborhood Park  
510 E. Navajo Road  
10 AM to 2 PM Talk in on 146.520 FM

## **White Mountains - August 3rd, 9:00 am**

The Laurel VE Team, KARC, will be conducting testing on 3 Aug 2019 at 9 am. The location is the Solterra Senior Living location at 5408 Arizona Highway 260, Lakeside, AZ 85929

Walk-ins Accepted -> Pre-registration is preferred. Email us at [VEtesting@cablenet.net](mailto:VEtesting@cablenet.net) to pre-register. Please include your name (the exact name used to create your FRN if you have an FRN), license call if you have one, and which license exam you wish to take. An acknowledgement will be emailed back to you.

At the testing session the following will be required: Government issued photo ID, your FCC Registration Number ("FRN") if you have one **or** your SSAN, the original and a copy of any passed exam element credit (CSCE), and a copy of current license if upgrading.

The test session begins at 9 am.

**Do you have any club news to share?  
It can be posted on this page.  
Send your info to Angie - [emberfire@cox.net](mailto:emberfire@cox.net).**



Cooking up  
Some Magic



# Company Fruit Salad

Total Time Prep/Total Time: 20 min.  
Makes 20 servings

## Ingredients

4 medium Golden Delicious apples, diced  
4 medium Red Delicious apples, diced  
2 cups seedless green grapes, halved  
2 cups seedless red grapes, halved  
1 can (20 ounces) pineapple chunks, drained  
1 can (11 ounces) mandarin oranges, drained



## DRESSING:

3 ounces cream cheese, softened  
1/2 cup sour cream  
1/2 cup mayonnaise  
1/2 cup sugar

## Directions

In a large bowl, combine the first 6 ingredients. In a small bowl, beat dressing ingredients until smooth. Pour over fruit; toss gently to coat.

## Test Kitchen Tips

Experiment with different fruit-and-nut flavor combinations in your fruit salads, such as peaches and pecans; apples and walnuts; cherries and almonds; or pineapple and macadamia nuts.

When making a fruit salad, toss the juice from a small can of pineapple into the bowl. The juice keeps the other fruit from browning, and bits of pineapple in the salad give it a tropical zing.

kiss the  
cook